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WATER SUPPLY OUTLOOK FOR IDAHO JUN

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Prepared by

U. S. DEPARTMENT of AGRICULTURE * SOIL CONSERVATION SERVICE

Collaborating with

IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.



TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

WATER SUPPLY OUTLOOK FOR IDAHO

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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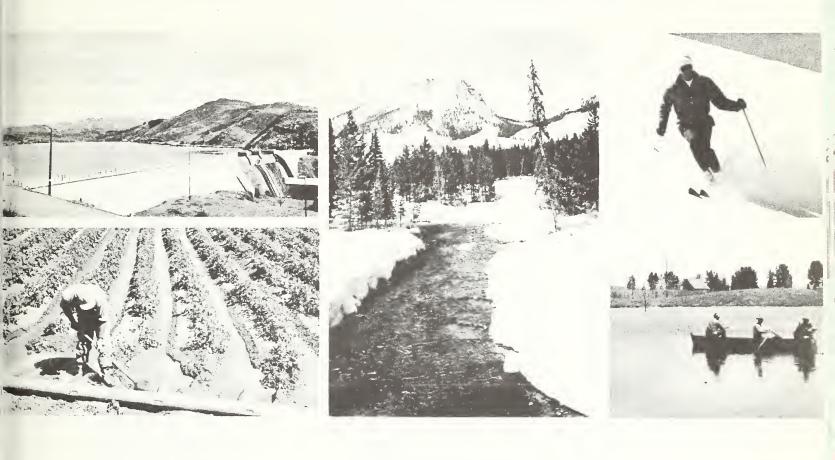
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WATER SUPPLY OUTLOOK for IDAHO



JUNE 1, 1973

SNOW SURVEYS, SUPPLEMENTAL MEASUREMENTS AND CORRECTIONS

Snow surveys made near the first of June indicate a continuation of the dry cycle experienced throughout the 1972-73 winter season. Measurements are the lowest of record for some courses and near the lowest on the remainder. Spring precipitation has been well below normal without any storms heavy enough to significantly increase streamflow. Temperatures in general have been normal to above normal resulting in early snowmelt even at high elevations.

As a result of early snowmelt and lack of spring precipitation, it now appears that practically all rivers will flow less than the forecasts of May 1.

Reservoir storage was good at the beginning of the season but will be reduced significantly by the end of this irrigation season.

This report carries supplemental and corrected measurements made earlier in the season.



JUNE 1, 1973 MEASUREMENTS

Atlanta Summit	7500	6/1	16	7.3	35.3	
Big Creek Summit	6600	5/30	14	7.3	31.4	
Brundage Mountain	7 560	5/29	32	15.5	45.8	
Coolwater Mountain	6200	5/30	0	0.0	em 205	
Crater Meadows	6100	5/30	5	2.8	56.4	
Deadwood Summit	7000	5/30	24	12.4	36.9	
Darby Canyon	8250	6/6	0	0.0		440 CC0
Elk Butte	5550	5/29	0	0.0	36.6	
Freds Mountain	8000	6/6	0	0.0	em day	
Galena Summit	8795	6/6	T	T	23.2	
Garns Mountain	8 3 00	6/6	23	12.5		
Goat Lake	6600	5/30	32	15.3	56.0	
Granite Peak	6000	5/29	20	10.1	57.4	
Hemlock Butte	5500	5/29	20	10.9	58.0	
Indian Meadows	8200	6/6	27	14.4		
Jackpine Creek	7500	6/6	0	0.0	613- 628	GD 529
Jackson Peak	7000	5/31	0	0.0	25.4	
Kellogg Peak (A)	5560	5/29	0	0.0	en 19	
Lookout	5250	5/30	0	0.0	25 .3	
Lost Lake	6000	5/29	28	13.1	83.0	
McRenold Reservoir	6800	6/6	0	0.0		
Medicine Ridge	6150	5/29	21	10.6	61.0	
Miles Creek	7500	6/6	0	0.0	cm 600	
Moores Creek Summit	6100	5/31	0	0.0	20.8	6.8
Orogrande Mountain	7800	5/ 3 0	40	18.1	49.2	
Pine Creek Pass	6750	6/4	0	0.0		
Roland Summit (A)	5200	5/29	0	0.0		
Schweitzer Bowl	4500	5/29	0	0.0	0.0	
Schweitzer Ridge	6100	5/29	3 8	19.2	34.8	
Secesh Summit	6600	5/31	7	3.4		
Squaw Meadow	5800	5/31	0	0.0	17.5	
State Line	6400	6/4	0	0.0		day cas
Trinity Mountain	77 80	6/1	18	8.8	42.9	
Vienna Mine	8900	6/1	25	12.8	46.8	



SUPPLEMENTAL MEASUREMENTS DECEMBER 1, 1972 11/29 Emigrant Summit 7350 20 4.0 6.6 6840 11/28 16 3.0 3.0 Giveout 11/30 Somsen Ranch 7000 15 2.0 4.3 12 Willow Flat 6100 11/30 2.1 DECEMBER 15, 1972 12/18 6.6 5110 31 Mosquito Ridge Pierce Ranger Station 3170 12/15 7 1.0 8.1 JANUARY 1, 1973 Buck Meadows 5600 1/8 42 12.0 1/8 40 10.4 6**3**00 Mountain Meadows 5700 1/5 29 7.0 Silver Creek Ridge JANUARY 15, 1973 Mount Baldy 9000 1/14 32 7.4 13.5 Pierce Ranger Station 3170 1/16 10 2.0 15.5 FEBRUARY 15, 1973 Galena 2/15 7300 44 11.4 19.4 Galena Summit 8795 2/15 50 13.4 24.2 12.2 Mount Baldy 9000 2/15 50 18.0 15.4 2/15 20 4.4 19.8 9.4 Pierce Ranger Station 3170 MARCH 15, 1973 3/16 34 10.6 Above Burke 4100 Bogus Basin 6120 3/21 58 18.2 -Fourth of July Summit 3100 3/15 6 2.6 9.4 Galena 7300 3/15 44 13.0 24.8 Galena Summit 8795 3/15 54 15.6 31.2 Lookout 5250 3/15 63 20.0 53.8 36,2 3/14 51 14.3 24.5 19.0 Mount Baldy 9000 3/15 23.4 Pierce Ranger Station 3170 16 4.7 11.4 Prairie 4900 3/15 2 0.8 8.6 17 3.7 22.8 Sherwin 3200 3/15



SUPPLEMENTAL MEASUREMENTS

APRIL 15, 1973						
Fourth of July Summit	31 00	4/16	0	0.0	Q00 case	
Galena	73 00	4/17	34	12.5	23.5	
Galena Summit	8795	4/17	59	18.6	34.6	
Lookout	5250	4/16		19.2	57.1	
Mount Baldy	9000	4/15	55	16.8		
Pierce Ranger Station	317 0	4/13	1	0.3	16.0	5.0
Prairie	4900	4/15	0	0.0	0.0	
MAY 1, 1973						
Bear Canyon	7920	5/9	28	10.1	16.4	
Copper Basin	7650	5/9	0	0.0	4.8	
Garns Mountain	8300	5/11	81	37.3		20 00
Indian Meadows	8200	5/11	78	34.3	mc 429	
		•				
MAY 15, 1973						
Galena	7300	5/15	Т	Т	9.0	
Galena Summit	8 79 5	5/15	3 6	15.0	3 0.6	
Lookout	5250	5/15	21			
			23	9.2	47.0	
Mosquito Ridge	5110	5/17	43	10.0		



CORRECTIONS TO PREVIOUSLY PUBLISHED 1973 DATA

JANUARY 1, 1973						
Deadwood Summit Island Park (New) Lower Sands Creek	7000 6 31 5 3 400		70 29 10	19,5 5.2 3.5	21.0	
FEBRUARY 1, 1973						
Dixie Hill Horse Creek Helispot Sage Creek Saddle	5230 4100 4100	1/31 1/30 1/29	5 19 23	1.1 5.0 6.0	6.3	• •
MARCH 1, 1973						
Island Park (New) Mountain Meadows Savage Pass (Old)	6315 6300 6160	3/6	43 47 50			24.9*
APRIL 1, 1973						
Copper Ridge Elk Mountain Mud Flat Webber Creek	4800 7500 5500 6 7 00		32 89 12 27	11.5 38.0 4.7 5.8	71.7	31.1 4.2* 4.5*
MAY 1, 1973						
Stickney Mill	7 500	5/4	10	3.2	3.3	



Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Department of Water Administration
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

- U. S. Army Engineers
- U. S. Department of Agriculture
 Forest Service
 Agriculture Research Service
- U. S. Department of Commerce
 NOAA, National Weather Service
- U. S. Department of the Interior Bonneville Power Administration Bureau of Reclamation Fish and Wildlife Service Water Resources Division, Geological Survey Indian Service National Park Service Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company Washington Water Power Company Idaho Power Company Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE ROOM 345

304 N. 8TH ST. Boise, IDAHO 83702

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Furnishes the basic data

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